

FIGURE 1

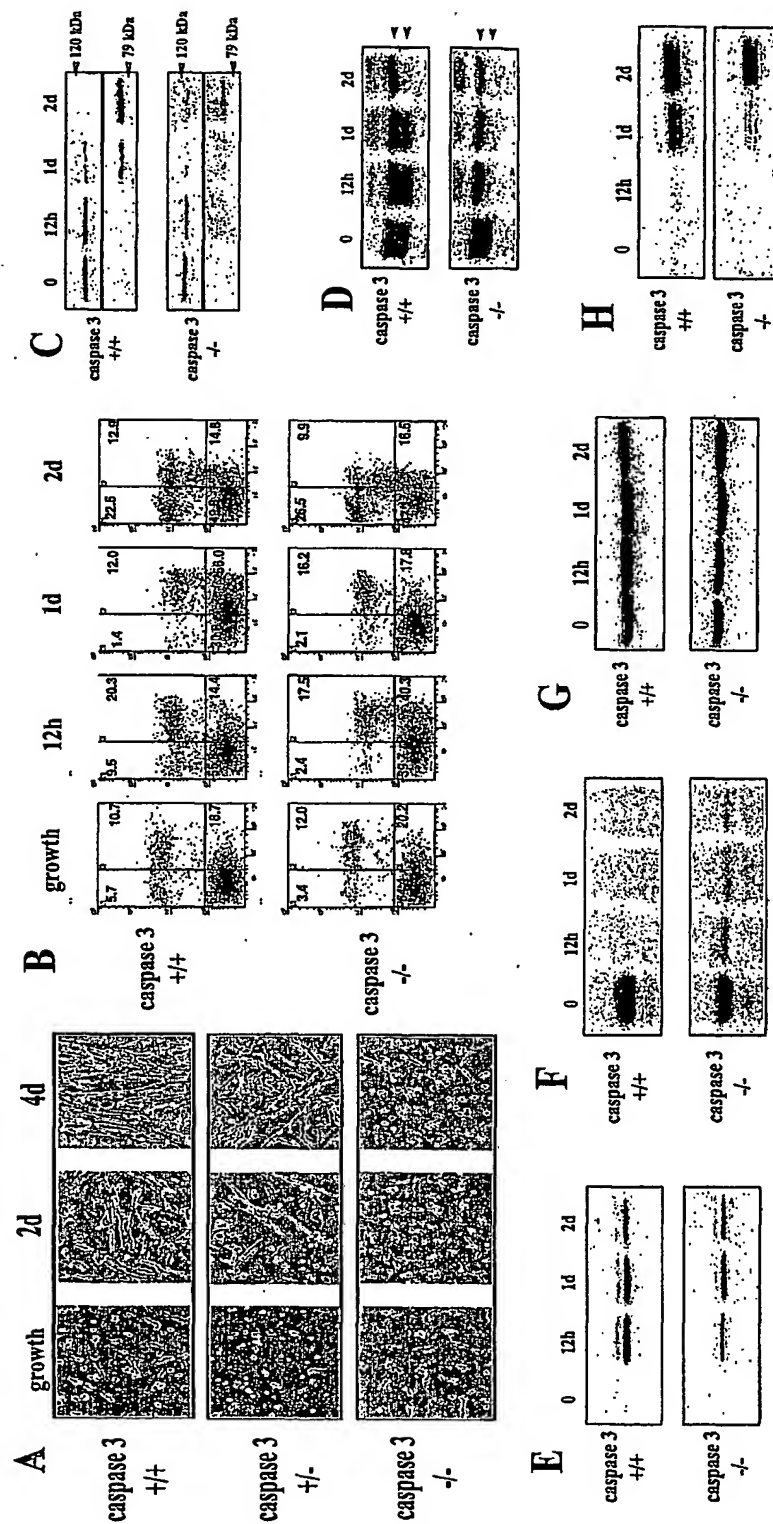


FIGURE 2

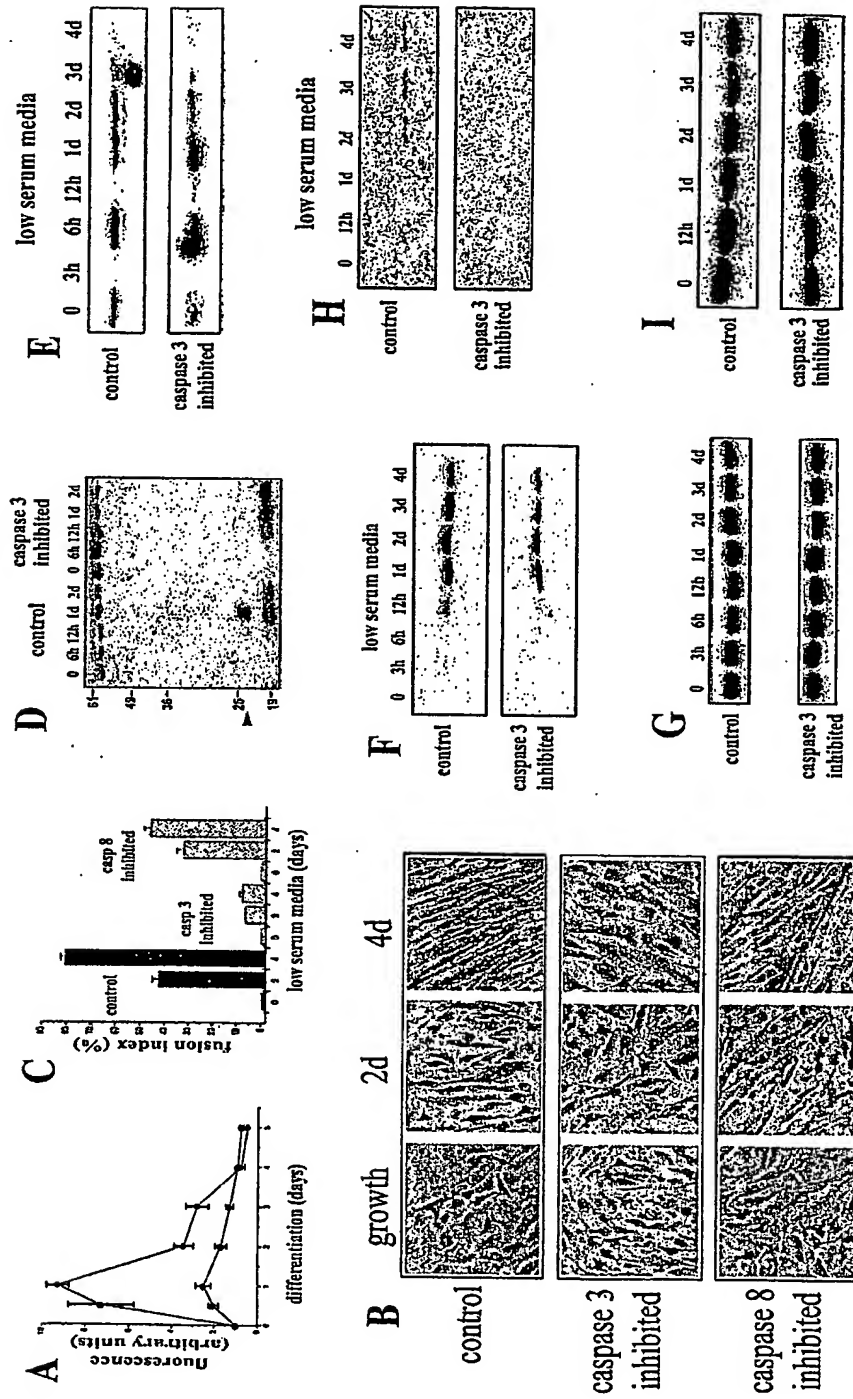


FIGURE 3

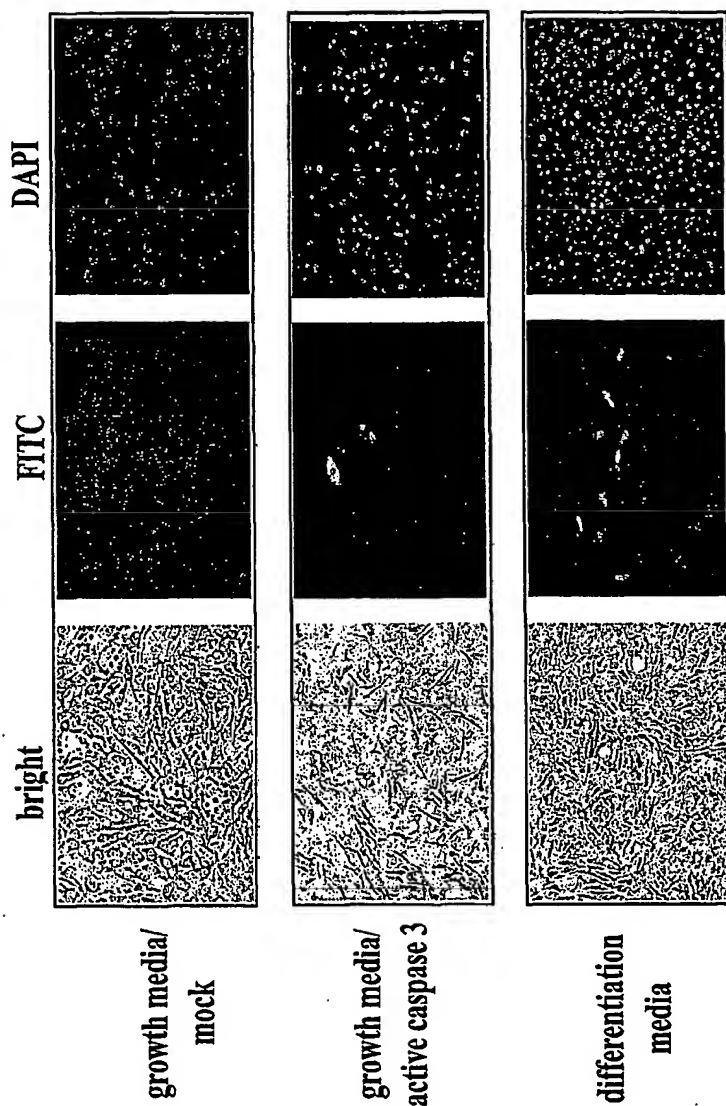


FIGURE 4

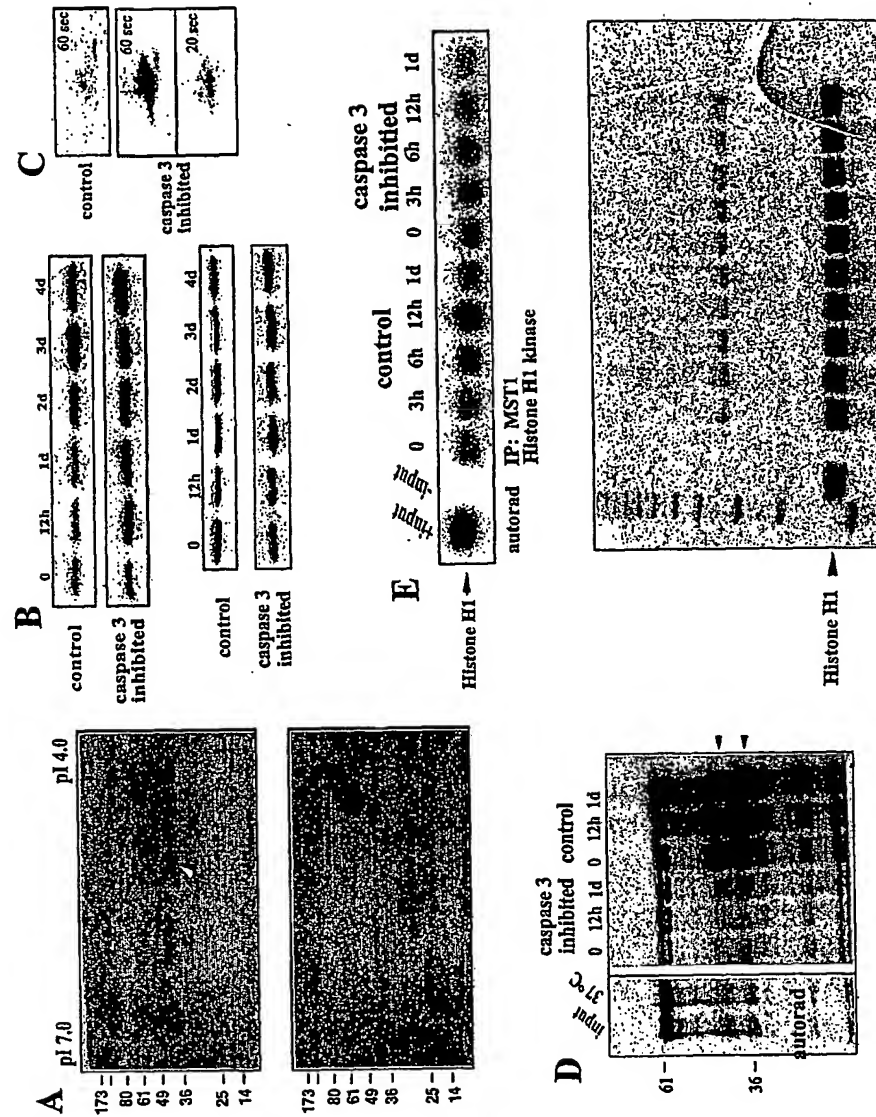


FIGURE 5

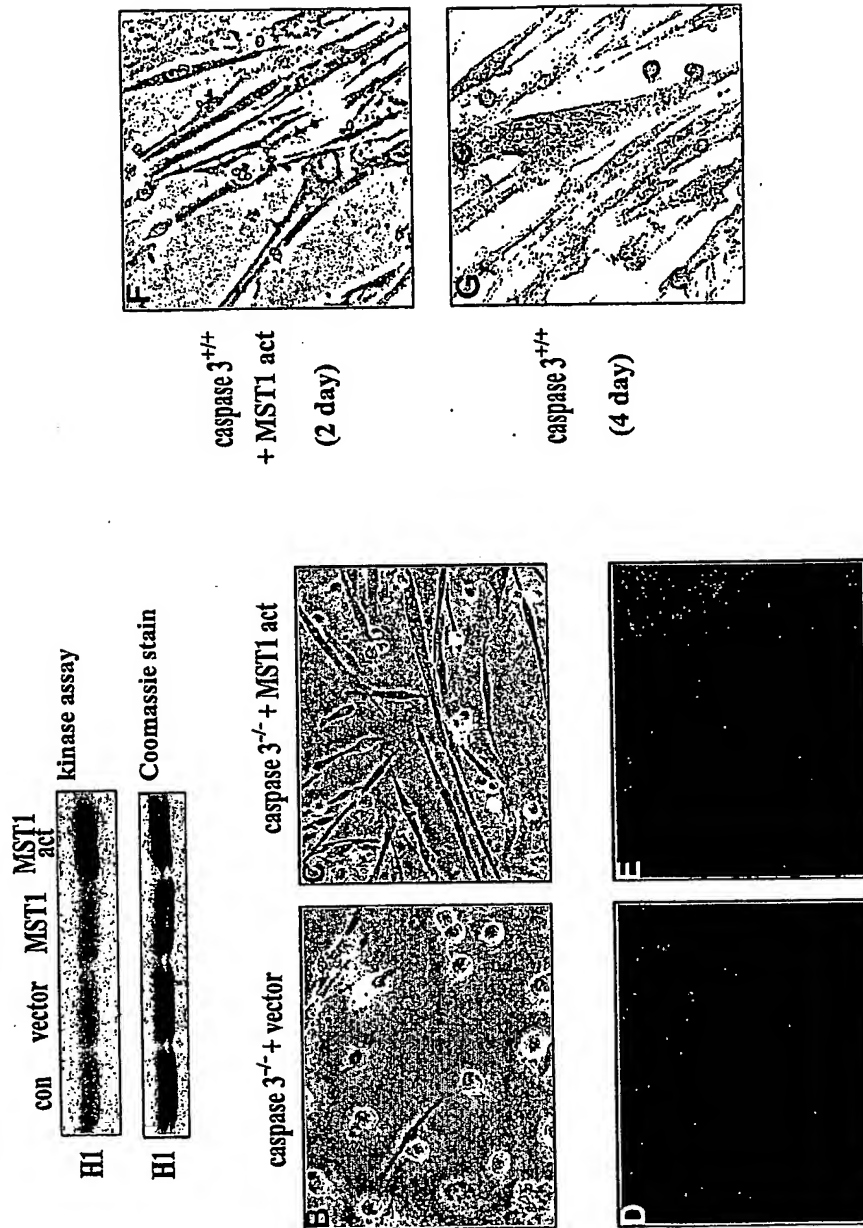


FIGURE 6

1 atggagaaca ctgaaaactc agtggattca aaatccatta aaaatttga accaaagatc
61 atacatggaa gcgaatcaat ggactctgga atatccctgg acaacagtta taaaatggat
121 tatcctgaga tgggtttatg tataataatt aataataaga atttcataa aagcactgga
181 atgacatctc ggtctggtac agatgtcgat gcagcaaacc tcagggaac attcagaaac
241 ttgaaatatg aagtcaggaa taaaaatgat ctacacgtg aagaaattgt ggaattgatg
301 cgtgatgttt ctaaagaaga tcacagcaaa aggagcagtt ttgtttgtgt gcttctgagc
361 catggtgaag aaggaataat ttttgaaca aatggacctg ttgacctgaa aaaaataaca
421 aactttttca gaggggatcg tttagaagt ctaactggaa aacccaaact ttcattatt
481 caggcctgcc gtggtacaga actggactgt ggcattgaga cagacagtgg tgttgatgat
541 gacatggcgt gtcataaaat accagtggag gccgacttct tgtatgcata ctccacagca
601 cctggttatt attcttggcg aaattcaaag gatggctcct ggttcaccca gtcgctttgt
661 gccatgctga aacagtatgc cgacaagctt gaatttatgc acattottac ccgggtaac
721 cgaaaggtgg caacagaatt tgagtccttt tcccttgacg ctactttca tgcaaagaaa
781 cagattccat gtattgttc catgctcaca aaagaactct attttatca ctaa

FIGURE 7

A.

1 mentensvds ksiknlepki ihgsesmdsg isldnsykmd ypemglcii nknfhkstg
 61 mtsrsgtdvd aanlretfm lkyevrnknd ltreeivelm rdvskedhsk rssfvcvlls
 121 hgeegiifgt ngpvdllkit nffrgdrers ltgkpklfii qacrgtelde gietdsgvdd
 181 dmachkipve adflyaysta pgyyswrnsk dgswfiqslc amlkqyadkl efmhiltrvn
 241 rkvatefesf sfdatfhakk qipcivsmilt kelyfyh

B.

s ksiknlepki ihgsesmdsg isldnsykmd ypemglcii nknfhkstg
 mtsrsgtdvd aanlretfm lkyevrnknd ltreeivelm rdvskedhsk rssfvcvlls
 hgeegiifgt ngpvdllkit nffrgdrers ltgkpklfii qacrgtelde gietdsgvdd
 dmachkipve adflyaysta pgyyswrnsk dgswfiqslc amlkqyadkl efmhiltrvn
 rkvatefesf sfdatfhakk qipcivsmilt kelyfyh

C.

sg isldnsykmd ypemglcii nknfhkstg
 mtsrsgtdvd aanlretfm lkyevrnknd ltreeivelm rdvskedhsk rssfvcvlls
 hgeegiifgt ngpvdllkit nffrgdrers ltgkpklfii qacrgtelde gietdsgvdd
 dmachkipve adflyaysta pgyyswrnsk dgswfiqslc amlkqyadkl efmhiltrvn
 rkvatefesf sfdatfhakk qipcivsmilt kelyfyh

D.

sg isldnsykmd ypemglcii nknfhkstg
 mtsrsgtdvd aanlretfm lkyevrnknd ltreeivelm rdvskedhsk rssfvcvlls
 hgeegiifgt ngpvdllkit nffrgdrers ltgkpklfii qacrgtelde gietd

E.

sgvdd
 dmachkipve adflyaysta pgyyswrnsk dgswfiqslc amlkqyadkl efmhiltrvn
 rkvatefesf sfdatfhakk qipcivsmilt kelyfyh

FIGURE 8

1 ccggctgctggcatcgccatggagacggtacagctgaggaacccgccgcccggcagct
61 gaaaaagtggatgaagatagttaaccaaacaaccagaagaagtattgatgtcttaga
121 gaaacttgagaagggtcctatggcagcgatatacaagctattcataaagagaccggcca
181 gattgttgctattaagcaagtcctgtggaatcagacctccaggagataatcaagaaat
241 ctctataatgcagcaatgtgacagccctcatgtagtcaaataattatggcagttatttaa
301 gaacacagacttatggatcgttatggagtactgtggggctggttctgtatctgatcat
361 tcgattacgaaataaacgttaacagaagatgaaatagctacaataattacaatcaactt
421 taagggacttgaataccttcattttatgagaaaaatacccgagatatcaaggcaggaaa
481 tattttgctaaatacagaaggacatgcaaaactgcagatttggggtagcaggtcaact
541 tacagataccatggccaagcgggaatacagtgataggaaacaccatttggatggctccaga
601 agtgattcaggaaattggatacaactgtgtagcagacatctgtccctgggaataactgc
661 catagaaatggctgaaggaaagcgcccttatgtgatatccatccaatgaggggcaatctt
721 catgattcctacaaatcctcctccacattccgaaaaccagagctatggtcagataactt
781 tacagattttgtgaaacagtgcttgttaaagagccctgagcagagggccacagccactca
841 gctcctgcagcaccatttgtcaggagtgcaaaggagtgtcaatactgcgagacttaat
901 taatgaagccatggatgtgaaactgaaacgccaggaatccagcagcgggaaatggacca
961 ggacgatgaagaaaactcagaaggatgaaatggattctggcacgatggttcgagcagt
1021 gggatgatgatgggcactgtccgagtagccagcaccatgactgatggagccaatactat
1081 gattgagcacgatgacacgttgccatcacaactgggcaccatggtgatcaatgcagagga
1141 tgaggaagaggaaggaactatgaaaagaagggatgagaccatgcagcctgcgaaaccatc
1201 ctttctgaatatatttgaacaaaaagaaaaggaaaaccagatcaacagcttggcaagag
1261 tgtacctggtccactgaaaaattcttcagattgaaaataccacaggatggagactacga

FIGURE 8 cont'd

1321 gtttcttaagagttggacagtggaggaccttcagaagaggctcttggccctggaccccat
1381 gatggagcaggagattgaagagatccggcagaagtaccagtccaagcggcagcccatcct
1441 ggatgcatagaggctaagaagagacggcaacaaaacttctgagcaaggccaggctgtga
1501 gggccccagctccaccagggcttgggtgaattctggatggcttgcctcatgtttgtagc
1561 cagcaccttctgctctgtctctccacagcaccttctgaactcaggaatgtgcgcca
1621 gtggaagggtctcttgacagtcagcgtgccatcttgatgtgtatgtacattggtca
1681 ggtatattatctcaaaggatttatattggcgacttttaactcagagttttaacccag
1741 gaacagagactcctagttgagtgatagctgggaaagtttaccattgtctgttttctct
1801 cccaatagcttcaattgtcttctggaagactttaaaaaatataaatatgcatata
1861 tatatataaattataaatagattccccacgcaggttggtggcatctctgt

FIGURE 9

1 metvqlmpp rrqlkklded sltkqpeevf dvleklgegs ygsvykaihk etgqivaikq
61 vpvesdlqei ikeisimqqc dsphvvkyyg syfkntdlwi vmeycgagsv sdiirlmkt
121 ltedeiatil qstlkgleyl hfmrkihrdi kagnillnte ghakladfgv agqltdtmak
181 mntvigtpfw mapeviqueig yncvadiwsl gitaiemaeg krpyadihpm raifmiptnp
241 pptfrkpelw sdnfddfvcq clvkspeqra tatqllqhpv vrsakgvsil rdlineamdv
301 klkrqesqqr emdqddeens eedemdsgtm vragdemgt vrvastmtgd antniehddt
361 lpsqlgtmvi naedeeegt mkrrdetmqp akpsfleyfe qkekenqins fgksvpgplk
421 nssdwkipqd gdyeflkswt vedlqkrlla ldpmmeeqie eirkyqskr qpildaieak
481 krrqqnf

FIGURE 10A

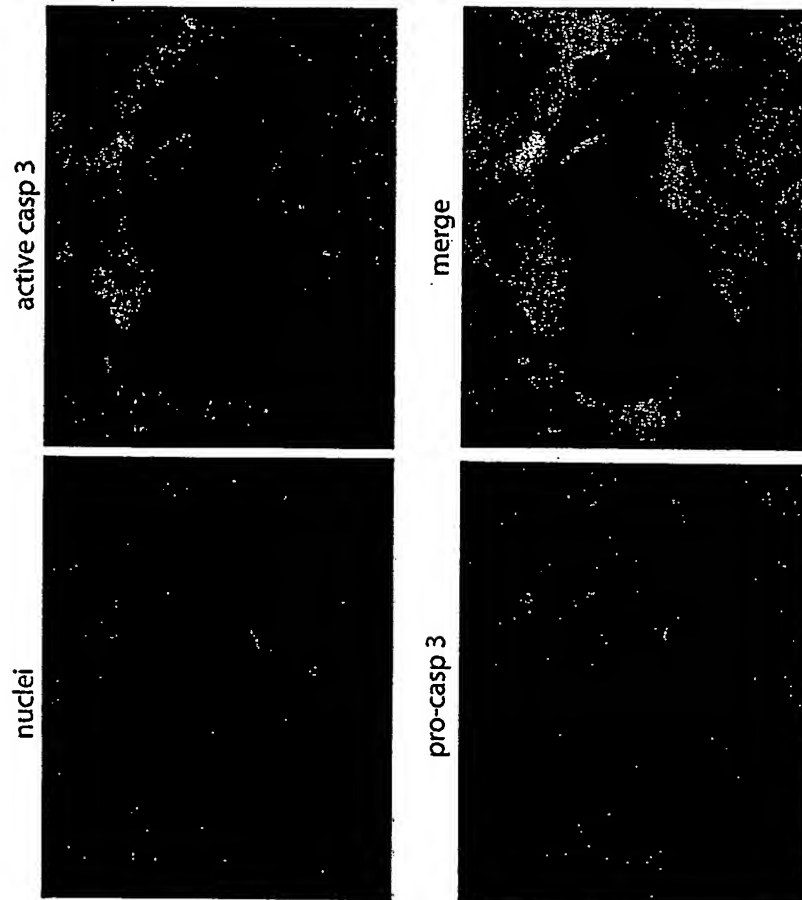


FIGURE 10B

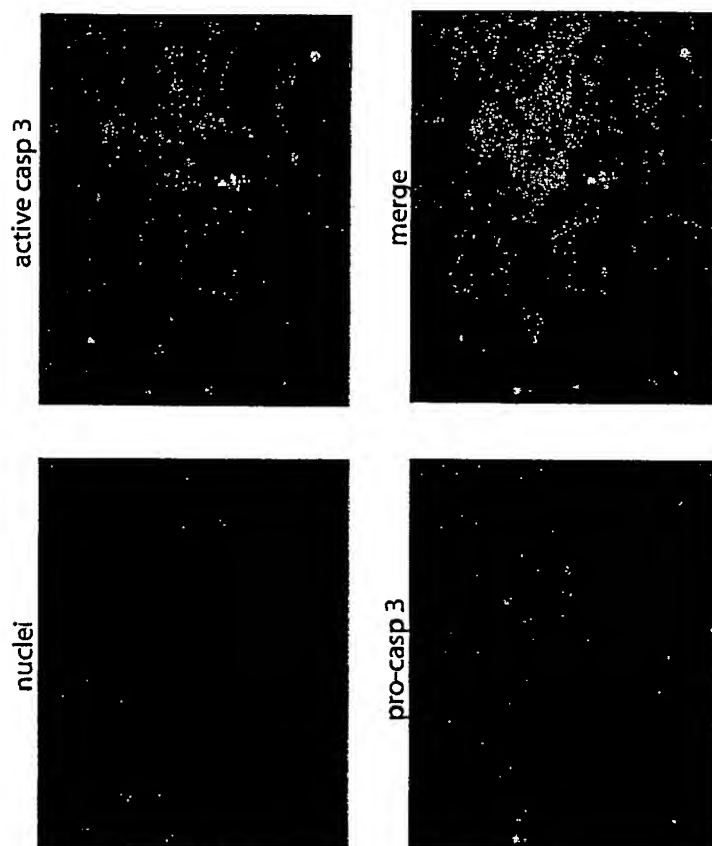


FIGURE 10C

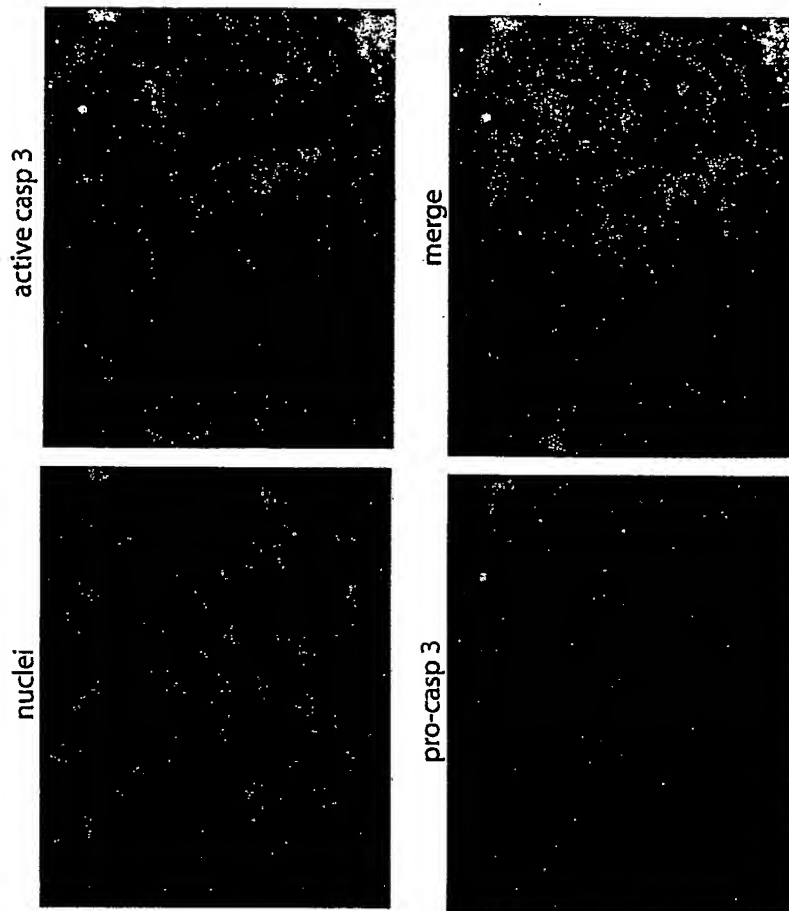


FIGURE 10D

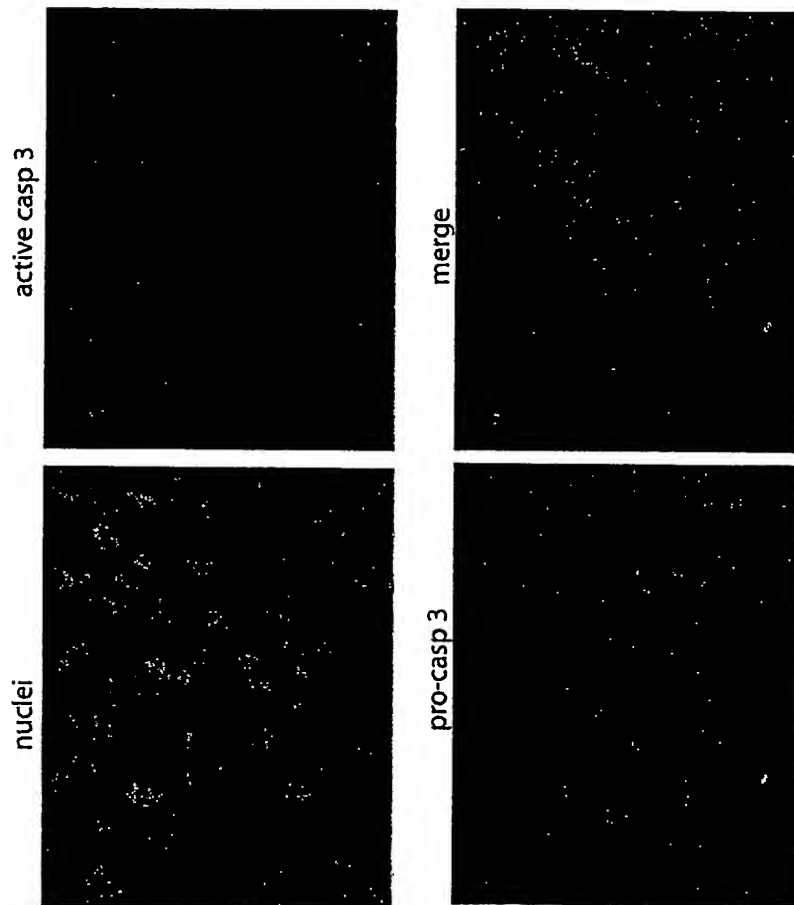


FIGURE 11A

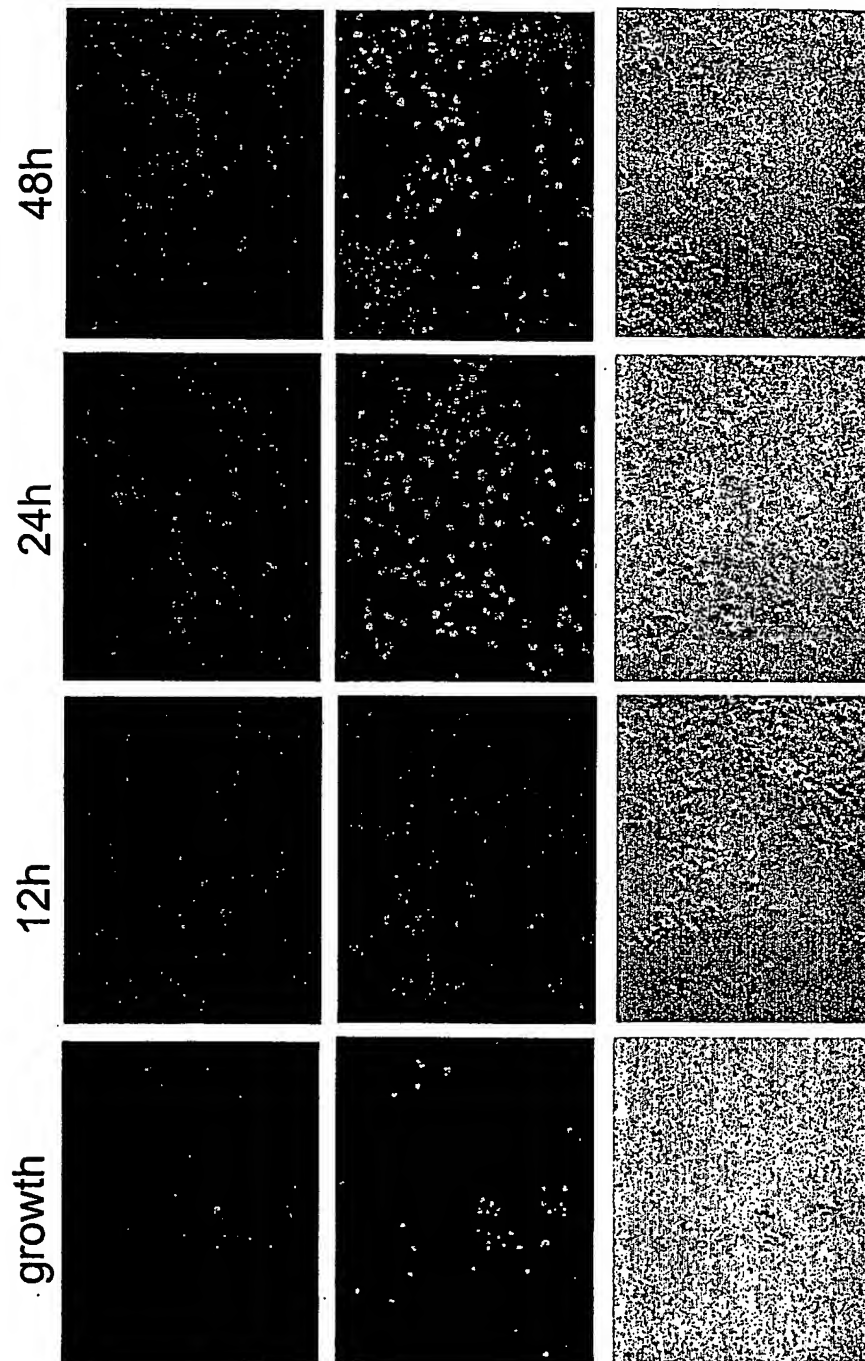


FIGURE 11B

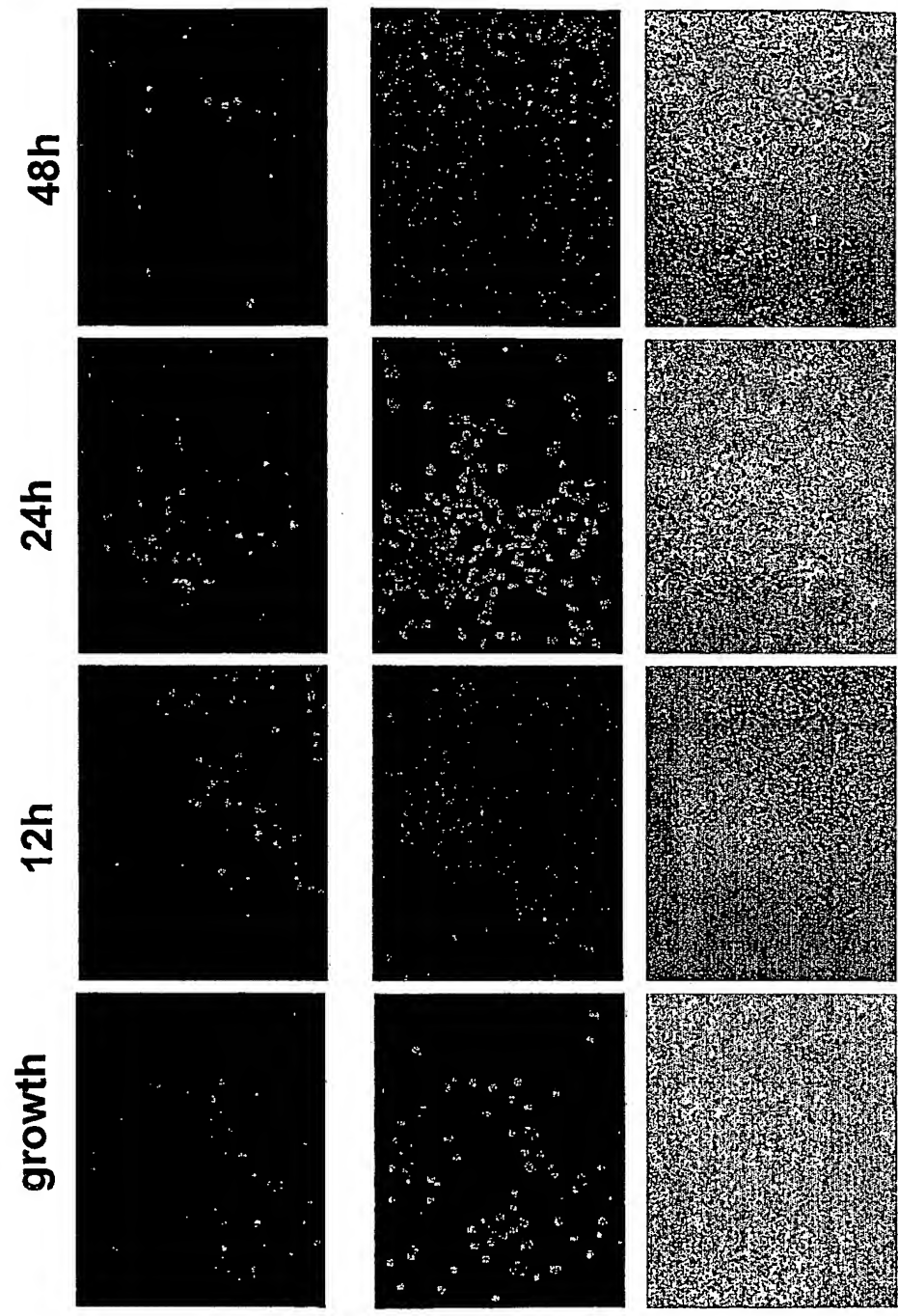


FIGURE 12A

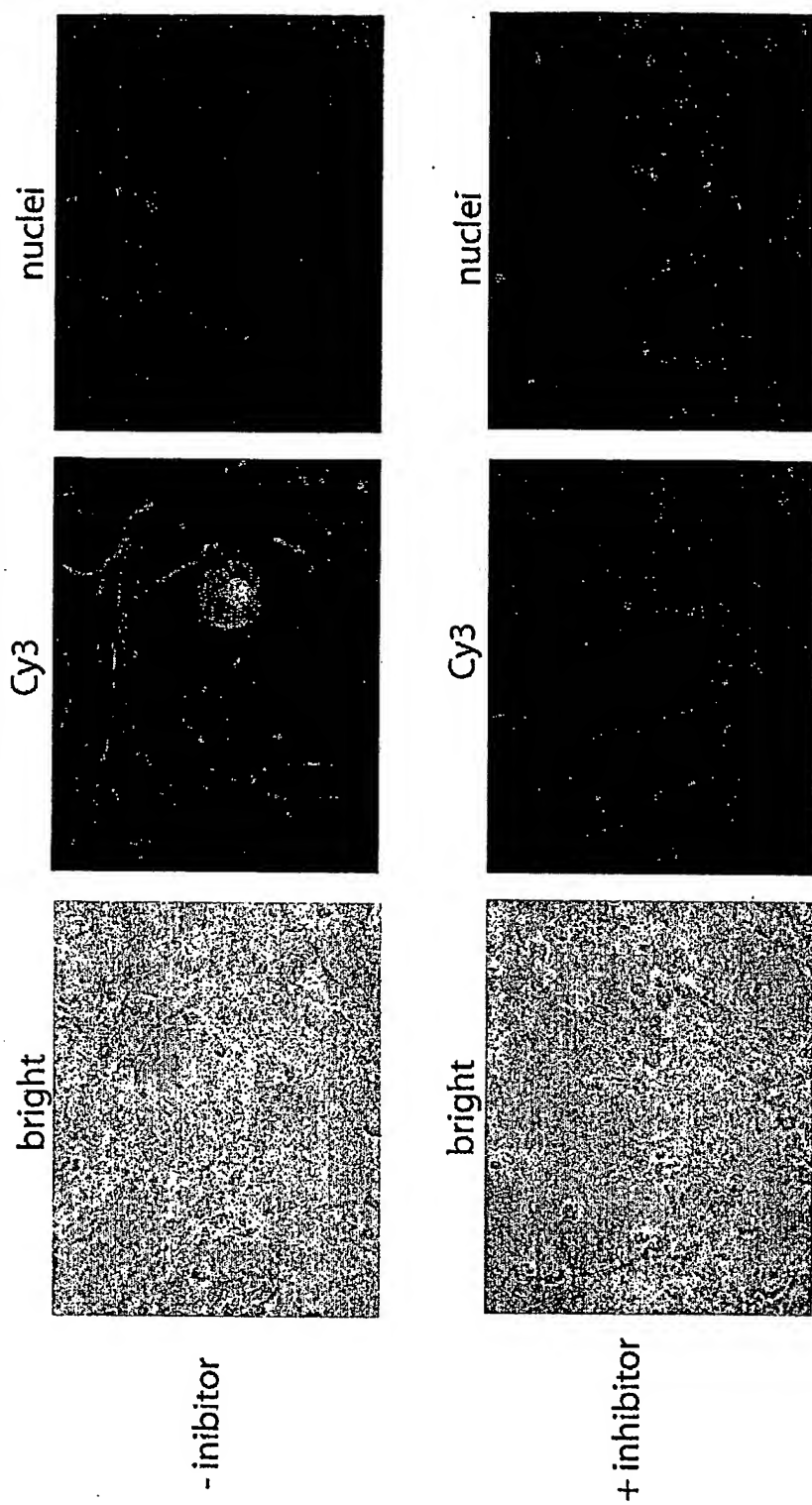


FIGURE 12B

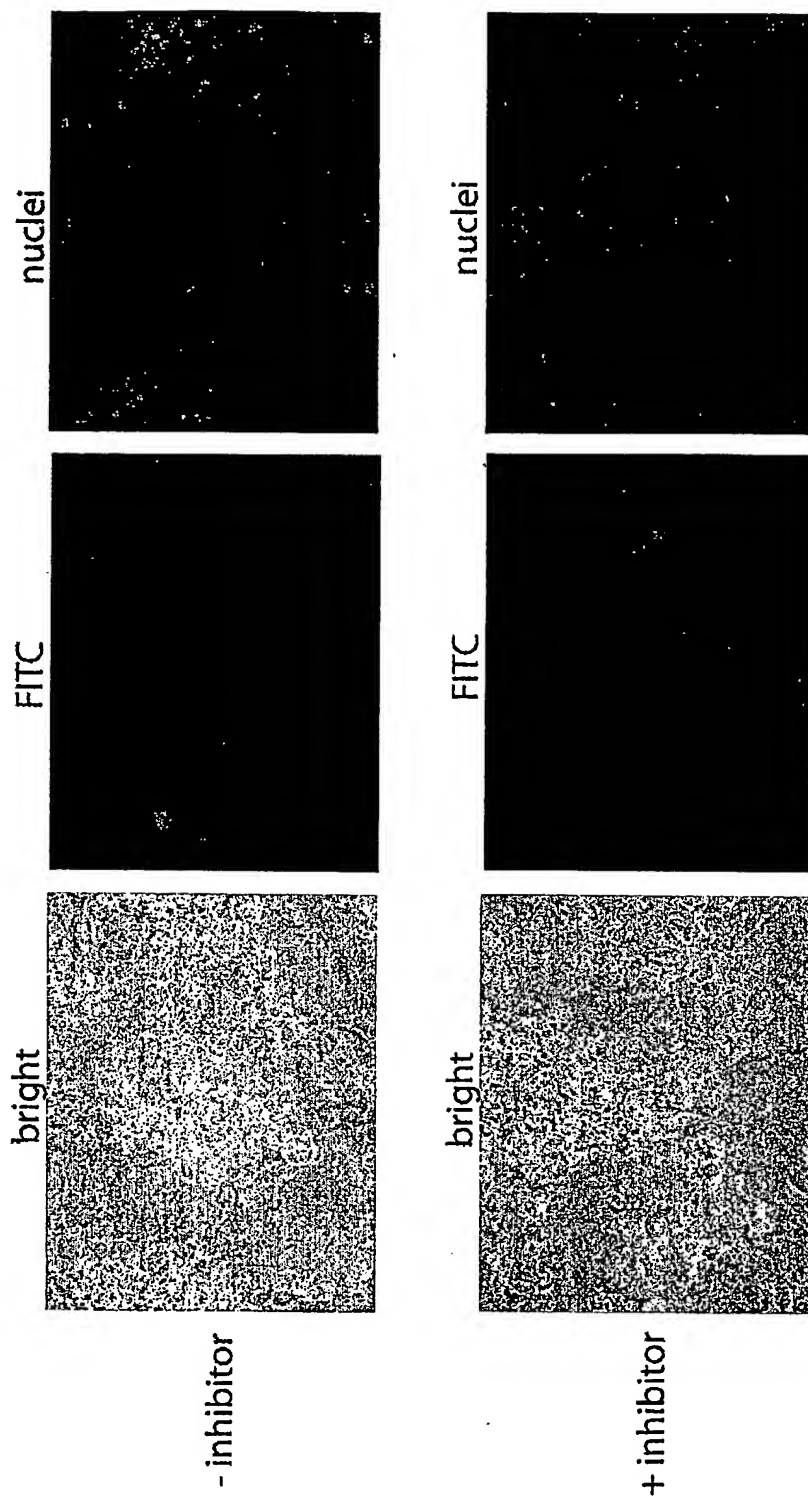


FIGURE 12C

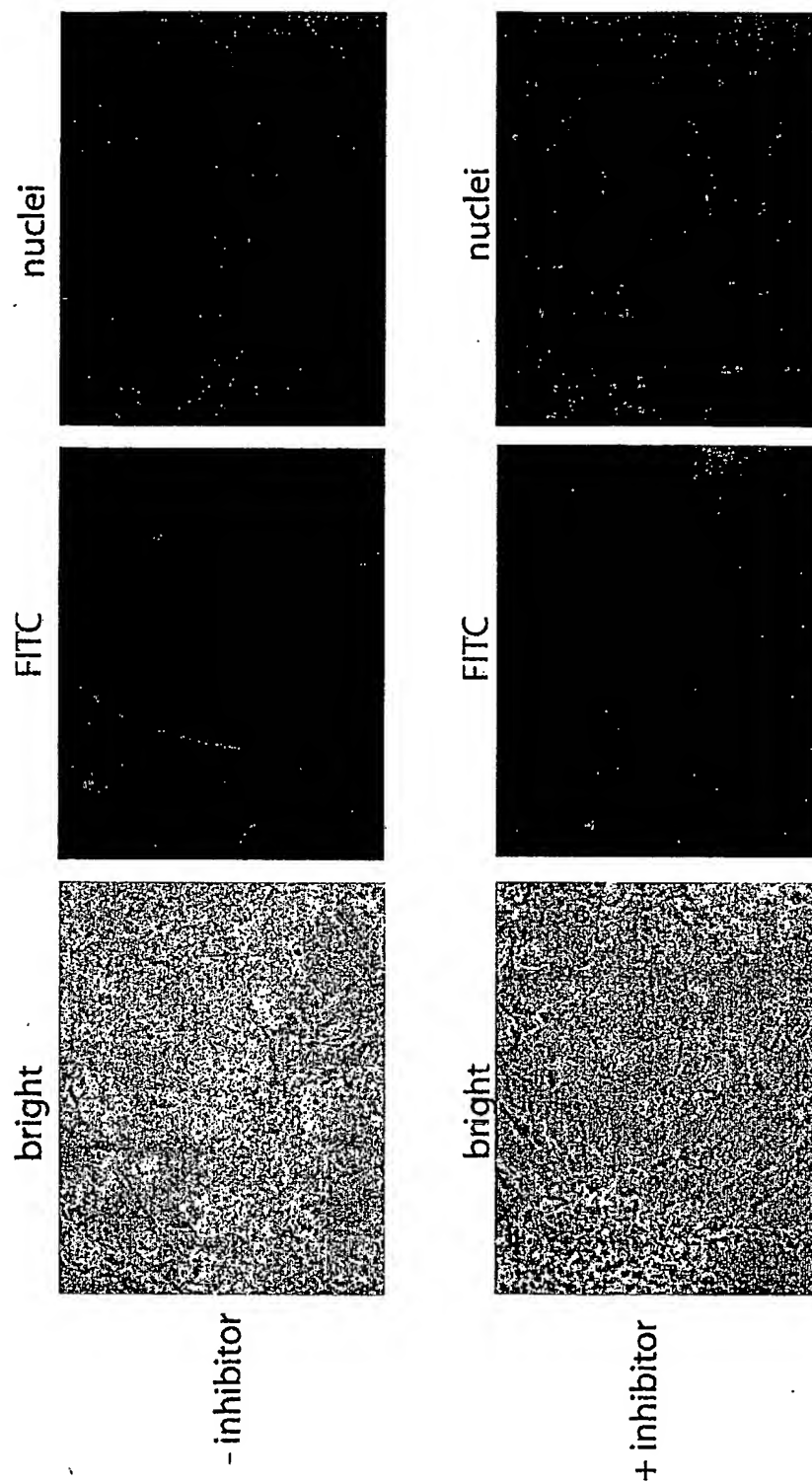


FIGURE 13A

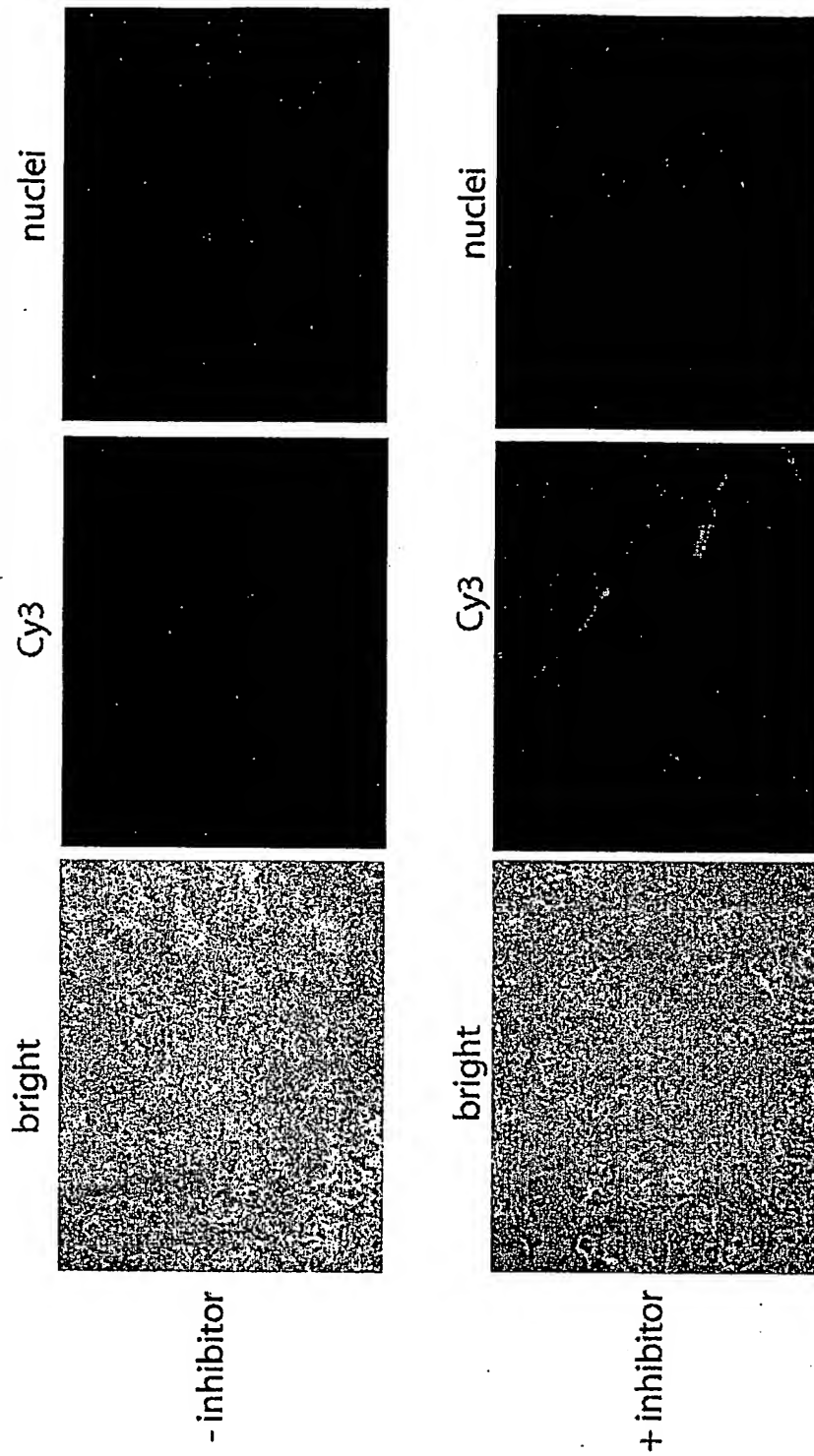
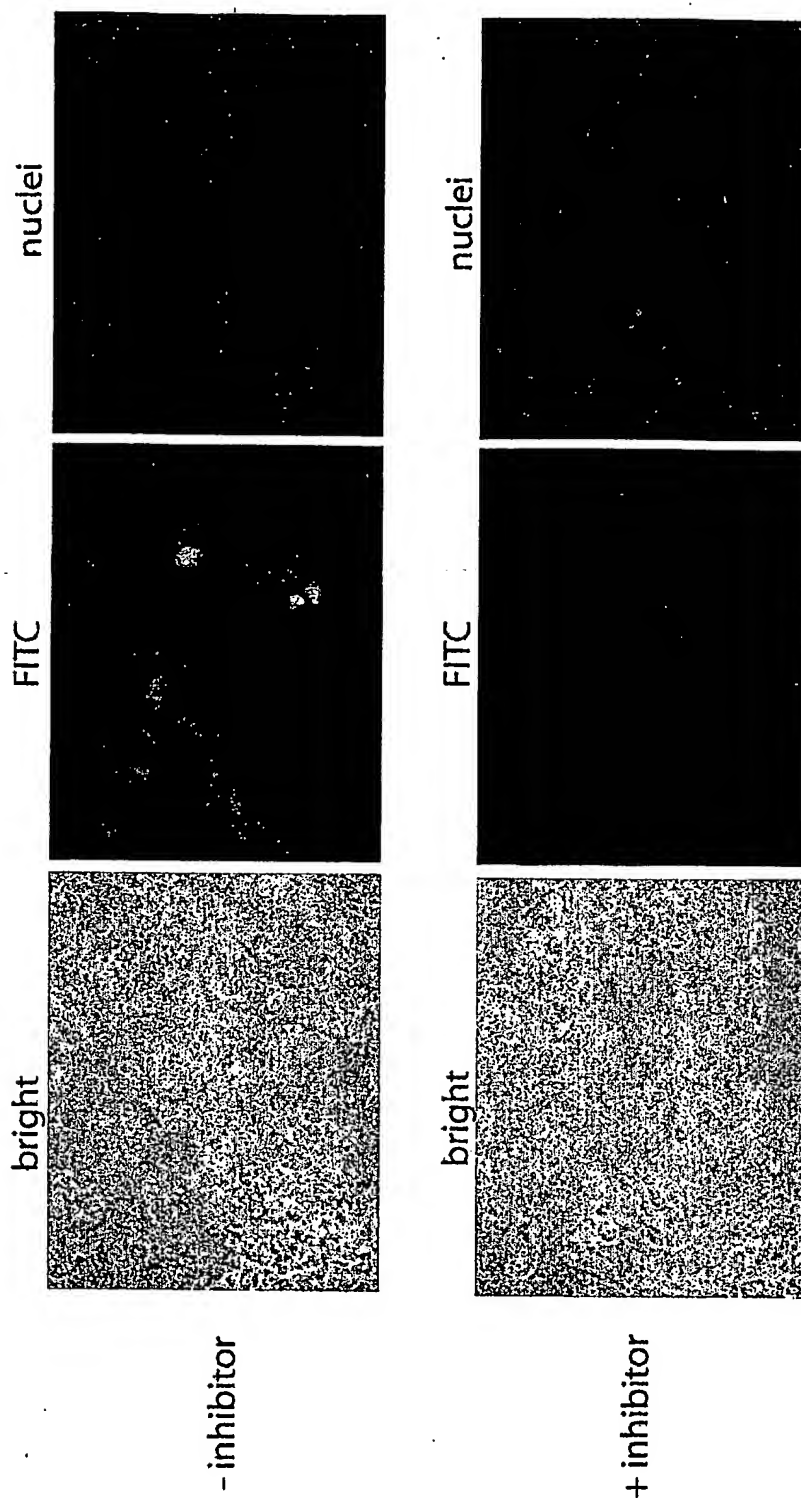
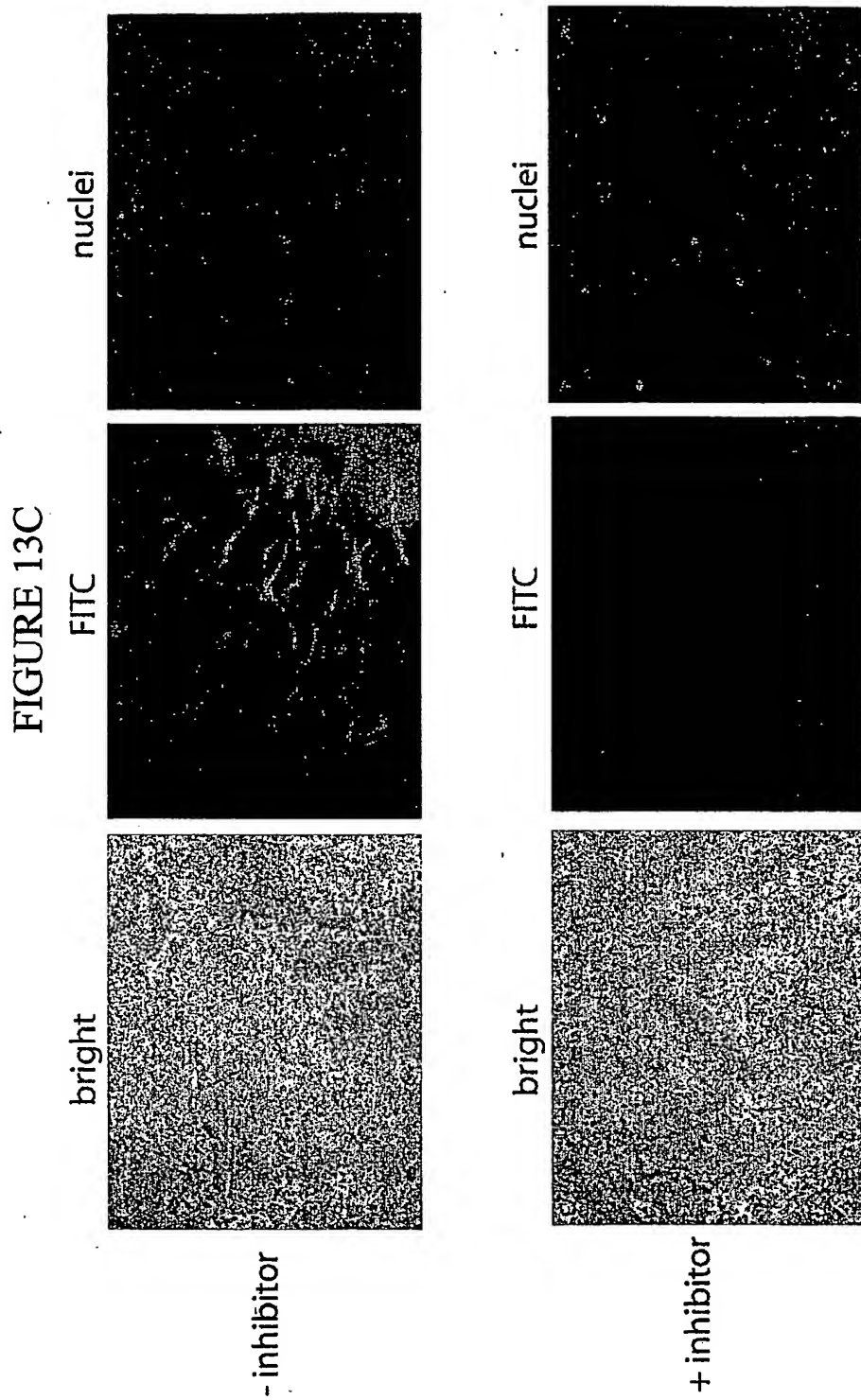


FIGURE 13B





**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ BLACK BORDERS
- ☐ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
- ☐ FADED TEXT OR DRAWING
- ☐ BLURRED OR ILLEGIBLE TEXT OR DRAWING
- ☐ SKEWED/SLANTED IMAGES
- ☒ COLOR OR BLACK AND WHITE PHOTOGRAPHS
- ☐ GRAY SCALE DOCUMENTS
- ☐ LINES OR MARKS ON ORIGINAL DOCUMENT
- ☐ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY
- ☐ OTHER: _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.